

PATENT APPLICATION
FD20014

REMARKS

Reexamination and reconsideration of this application as amended is requested. By this amendment, claims 1, 13, 14, and 17 have been amended. Claims 1-20 remain in the application.

RESTRICTION OF CLAIMS

The Examiner has restricted the claims to Group I (claims 1-20) and Group II (claims 21-23). Applicant hereby affirms the election of Group I, claims 1-20 as previously made during a telephone conversation. Claims 21-23 have been cancelled by this amendment.

REJECTION OF CLAIMS 13 AND 17 UNDER 35 U.S.C. §112

Claims 13 and 17 have been rejected under 35 U.S.C. 112 as being indefinite.

By this amendment, the words "or the like" have been deleted from claim 13 and "one of" have been added for clarity. The word "second" has been added to claim 17.

Accordingly, it is believed that the rejection of claims 13 and 17 under 35 U.S.C. 112 has been overcome by the amendment and remarks.

REJECTION OF CLAIMS 1, 3-5, 7-9, 12-15, 19 AND 20 UNDER 35 U.S.C. §102

Claims 1, 3-5, 7-9, 12-15, 19 and 20 have been rejected under 35 U.S.C. 102 as being anticipated by Haven et al 5,543,683.

The present invention teaches a method for manufacturing a field emission display comprising providing an anode plate with a substrate; providing a first film disposed on the substrate; exposing a portion of the film to define first channels; disposing a second film on the first film; exposing a second portion of the second film to define second channels substantially orthogonal to the first channels; removing the first and second films that were not exposed; disposing phosphor along the second channels so as to fill the area where the first and second films were removed from the substrate. See page 5, lines 20-21 and page 6, lines 13-15.

The Haven cited patent describes a surface discharge type plasma display panel having a faceplate 12 with a plurality of phosphor pixels 32 thereon (column 5, line 26). An electron beam 34 from field emitters 22 is directed by a focus grid 38 to the phosphor pixels 32 (column 5, lines 26-33). At column 5, lines 34-40, it is stated that "Various parameters are associated with the direction of electrons from field

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emitters 22 to the proper associated plurality of phosphor pixels 32. These include ... the precision of location of the plurality of phosphor pixels 32 relative to black matrix 40". It is further stated at column 5, lines 62-67, "The most significant parameter of the alignment issue is the precision to which faceplate 12, e.g., black matrix 40 and phosphor pixels 32, is aligned to backplate 14, e.g., focus grid 38 and field emitters 22, and thereafter held in place without movement during the thermal assembly process."

Haven teaches placing pixels on the faceplate and requiring the alignment thereof. This alignment requirement (lining up individual pixels) is avoided by the present invention. See page 1, lines 12-20 of the present invention for the disadvantages of the Haven method.

More specifically, claim 1 as amended is not anticipated by Haven since the phosphor is disposed along channels (in the present invention) as opposed to being placed in pixels as in Haven. Claim 1 as amended includes the step "disposing phosphor along the second channels on the uncovered portions of the substrate;".

Claims 3-5, 7-9 and 12-13 are believed allowable at least since they depend from what is believed to be an allowable claim.

Claim 14 is believed to not be anticipated by Haven since the phosphor is disposed along channels (in the present invention) as opposed to being placed in pixels as in Haven.

Claims 15 and 19-20 are believed allowable at least since they depend from what is believed to be an allowable claim.

Accordingly, it is believed that the rejection of claims 1, 3-5, 7-9, 12-15, 19 and 20 under 35 U.S.C. 102 has been overcome by the amendment and remarks.

REJECTION OF CLAIMS 1-4, 6-9, 11-13, 15, 17, AND 18 UNDER 35 U.S.C. §103

Claims 1-4, 6-9, 11-13, 15, 17, and 18 have been rejected under 35 U.S.C. 103 as being unpatentable over Haven in view of Sano et al 6,249,264.

The present invention and the Haven cited patent have been described above.

The Sano patent reference discloses a surface discharge type plasma display wherein phosphor 28 is formed on surfaces around area 30. The area 30 is basically defined by ridges 29 and substrate 21 (column 22, lines 35-51). This process results in "pixels" of phosphor 28 in each of the areas 30. Sano teaches ribs of substantial height where it is important to "coat" the sides with phosphor to obtain increased luminescence.

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The present invention disposes phosphor along channels (in strips) instead of discrete pixels, with a preferred depth of the channels being 10-12 micrometers (page 3, lines 11-13) and where the entire side is not coated (page 3, lines 12) in order to provide greater shielding of the phosphor material from the electric field.

More specifically, claim 1 as amended is not obvious since the phosphor is disposed along channels (in the present invention) as opposed to being placed in pixels. Claim 1 as amended includes the step "disposing phosphor along the second channels on the uncovered portions of the substrate;".

Claims 3-5, 7-9 and 12-13 are believed allowable at least since they depend from what is believed to be an allowable claim.

Claim 14 is believed to not be anticipated by Haven since the phosphor is disposed along channels (in the present invention) as opposed to being placed in pixels as in Haven.

Claims 15 and 19-20 are believed allowable at least since they depend from what is believed to be an allowable claim.

Accordingly, it is believed that the rejection of claims 1-4, 6-9, 11-13, 15, 17, and 18 under 35 U.S.C. 103 has been overcome by the amendment and remarks.

OBJECTION TO CLAIM 15

Claim 15 has been objected to as being dependent upon a rejected base claim. This claim is believed allowable since it depends from what is believed to be an allowable independent claim as amended.

Accordingly, it is believed that the objection to claim 15 has been overcome by the amendment and remarks.

The remaining cited references have been reviewed and are not believed to affect the patentability of the claims as amended.

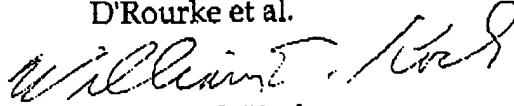
No amendment made herein was related to the statutory requirements of patentability unless expressly stated; and no amendment made herein was for the purpose of narrowing the scope of any claim, unless Applicant has argued herein that such amendment was made to distinguish over a particular reference or combination of references.

The Commissioner is hereby authorized to charge any fees which may be required or credit any overpayment to deposit account #502117.

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In view of the above, it is submitted that the claims are in condition for allowance. Reconsideration of the rejections is requested.

Respectfully submitted,
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